

CLAIMS

1. A foil bearing, comprising:
a stationary mount member surrounding an outer circumferential surface of a
5 journal of a rotating member via an annular gap; and
a plurality of centripetal force producing foils arranged in the annular gap so as
to oppose a substantially entire part of the outer circumferential surface of the journal,
wherein the stationary mount member is provided with a plurality of
circumferentially arranged through-holes at an axially middle portion thereof,
10 and wherein the centripetal force producing foils comprise members which are
axially spaced apart from each other at a position where the through-holes are located.
2. A foil bearing according to claim 1, wherein at least one of the through-holes
extends obliquely with respect to a line perpendicular to a circumference of the
15 stationary mount member.
3. A foil bearing according to claim 1, wherein the through-holes comprise a pair
of through-holes extending obliquely with respect to an axis of the stationary mount
member and inclined in opposite directions from each other, openings of the pair of
20 through-holes on an inner surface of the stationary mount member being arranged side
by side substantially in an axial direction.
4. A foil bearing according to claim 1, wherein the through-holes comprise
through-holes which are inclined in opposite axial directions and arranged alternately in
25 a circumferential direction.

5. A foil bearing according to claim 1, wherein a circumferentially extending groove is formed in an inner surface of the stationary mount member at an approximately middle portion thereof.